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MONTANA OIL AND GAS
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Vol. XIX, No. 10 — **OCTOBER, 1971**

Production of crude oil and condensate from the oil and gas areas of Montana for the month of October, 1971 averaged 94,187 barrels daily, an increase of 608 barrels from the average September, 1971 production of 93,579.

The nine refineries in the state processed 121,756 barrels of crude oil daily for the month of October, 1971, a decrease of 12,084 barrels from the 133,840 barrels processed daily during the month of September, 1971.

During October, 35 wells were completed, 2 oil, 3 gas and 30 dry holes.

During October the commission issued 67 permits to drill new wells, a decrease of 9 from the 76 permits issued during September.

SUMMARY OF CRUDE PRODUCTION, REFINING, STORAGE, ETC., IN MONTANA MONTH OF OCTOBER, 1971

IN STORAGE OCTOBER 1st	
By Producers	277,690
By Transporters	1,265,123
By Refiners	782,940
TOTAL STORAGE	2,325,753
Produced in Montana During Month	2,825,603
Imported During Month	2,905,286
TOTAL	8,056,642
DISPOSITION:	
Refined in Montana	3,774,432
Exposted	1,778,244
Used for Fuel or Lost	13,624
TOTAL	5,566,300
IN STORAGE OCTOBER 31st	
By Producers	296,403
By Transporters	1,336,028
By Refiners	857,911
TOTAL STORAGE	2,490,342

NATURAL GAS WITHDRAWALS IN MONTANA

Month of October, 1971

Field	M. C. Ft.
Bell Creek	210,050
Big Coulee	98,580
Blackjack	50,419
Bowdoin	178,334
Bowes	5,620
Cabin Creek	101,253
Cedar Creek	139,252
Cut Bank (including Regan)	1,028,475
Dry Creek	31,517
Elk Basin	59,807
Flat Coulee	23,284
Gold Butte	2,801
Grandview	45,739
Hardin	3,299
Keith Block	158,380
Kevin Sunburst	38,956
Lake Basin	97,567
Middle Butte	3,157
Mt. Lilly	72,795
Pine	49,736
Plevna	1,799
Tiger Ridge—Squaw Coulee	127,551
Trail Creek	2,574
Utopia	— 0 —
Whitlash	66,671
Miscellaneous	308,313
TOTAL	2,905,929

Total Withdrawals for October, 1970 were 2,905,687.

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PRODUCERS' REPORT — MONTH OF OCTOBER, 1971

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped By Pipeline	Oil Shipped By Truck	Loss or Gain	Storage End of Month
3	Ash Creek	3	153	1,587	———	1,565	———	175
1	Bainville	1	2,678	2,809	———	2,541	———	2,946
3	Bannatyne	3	———	597	597	———	———	———
6	Bear's Den	7	1,872	1,285	———	1,128	———	2,029
42	Bell Creek	318	29,733	458,062	458,608	———	165	29,022
—	Benrud	———	49	———	———	———	———	49
2	Benrud East	2	1,418	11,976	12,184	———	———	1,210
1	Benrud Northeast	1	572	2,262	1,520	———	———	1,314
1	Berthelote	1	622	191	466	———	———	347
6	Big Wall	20	1,850	8,288	8,082	———	———	2,056
5	Blackfoot	6	1,404	2,060	2,565	———	———	899
5	Border	6	2,766	706	———	1,830	———	1,642
1	Bowes	46	1,987	11,612	11,707	———	———	1,892
1	Bradley	1	287	509	409	———	———	387
3	Brady	3	———	386	386	———	———	———
4	Brorson-Madison	4	897	4,115	———	3,551	58	1,403
6	Brorson-Red River	6	4,543	11,378	———	11,236	———	4,685
3	Brorson-Red River South	3	1,841	4,582	———	4,568	———	1,855
7	Brush Lake	7	1,153	37,041	35,467	———	———	2,727
2	Cabin Creek	91	———	289,036	289,036	———	———	———
1	Canal	1	1,304	7,667	———	8,483	———	488
13	Cat Creek	60	2,739	17,320	14,279	3,165	———	2,615
1	Clark's Fork	1	46	139	———	———	———	185
1	Clark's Fork South	1	302	2,544	———	2,464	———	382
3	Conrad South	3	100	780	780	———	———	100
2	Cow Creek	2	412	1,468	———	1,428	———	452
1	Culbertson	1	238	1,300	———	1,034	———	504
2	Cupton	2	1,261	2,427	———	2,107	———	1,581
141	Cut Bank	895	48,871	435,416	435,667	825	798	46,997
—	Dean Dome	———	65	———	———	———	———	65
1	Deer Creek	1	429	1,314	862	———	———	881
1	Delphia	1	291	269	———	404	———	156
4	Devil's Basin	6	1,241	565	956	———	———	850
2	Dwyer	14	4,903	21,206	21,191	———	———	4,918
3	Elk Basin	3	900	141,376	141,280	———	———	996
5	Elk Basin Northwest	14	1,880	6,214	5,998	———	———	2,096
6	Fairview	10	8,728	29,367	10,810	18,807	———	8,478
2	Fertile Prairie	2	792	1,483	———	1,827	———	448
5	Flat Coulee	25	4,556	6,570	8,182	———	———	2,944
37	Flat Lake	53	4,041	46,998	46,798	———	———	4,241
6	Flat Lake South	6	1,395	9,572	10,126	———	———	841
1	Ft. Gilbert	1	888	13,792	14,478	———	———	202
1	Frannie	1	———	2,635	2,635	———	———	———
10	Fred & George Creek	33	3,806	31,393	33,019	———	———	2,180
1	Gage	1	62	137	———	174	———	25
3	Gas City	17	6,632	23,825	19,556	5,028	———	5,873
2	Girard	2	993	3,281	———	3,094	———	1,180
11	Glendive	15	1,566	28,261	26,347	———	———	3,480
26	Goose Lake	34	5,837	35,934	37,001	———	———	4,770
9	Graben Coulee	18	4,109	3,312	1,418	2,394	———	3,609
2	Gypsy Basin	2	944	391	391	———	———	944
1	Hay Creek-Mission Canyon	1	101	1,416	1,487	———	———	30
2	Hay Creek-Red River	2	994	13,293	14,001	———	———	286
5	Hlawatha	5	2,715	6,397	6,656	———	———	2,456
1	Hibbard	1	768	556	———	618	———	706
1	Injun Creek	1	661	422	———	512	———	571
6	Ivanhoe	12	1,829	5,301	4,831	———	———	2,299
6	Jim Coule	6	2,317	14,183	14,607	———	———	1,893
4	Keg Coulee	18	3,459	12,177	11,197	———	———	4,439
2	Keg Coulee North	2	572	542	448	———	———	666
1	Kelley	4	447	4,609	4,369	———	———	687
81	Kevin Sunburst	403	6,138	30,644	25,680	3,467	10	7,625
8	Laird Creek	10	654	3,299	———	3,446	3	504
3	Leary	3	1,145	7,455	6,548	754	153	1,145
1	Little Beaver	1	———	40,694	40,694	———	———	———
2	Little Beaver East *	12	2,325	12,382	13,414	———	———	1,293
1	Little Wall Creek	1	655	2,951	2,655	———	———	951
1	Lodge Grass	1	540	1,075	———	1,029	———	586
2	Lonetree Creek	2	1,294	26,208	———	25,901	———	1,601
3	Lookout Butte (Coral Creek)	31	560	69,321	68,908	———	———	973
2	Mason Lake	2	632	305	353	———	———	584
2	Melstone	3	540	1,910	1,863	———	———	587
1	Mineral Bench	1	130	378	———	———	———	508
1	Miner's Coulee	1	107	254	———	254	———	107
11	Monarch	14	4,772	17,008	14,898	3,568	———	3,314
3	Mosser	3	———	707	———	707	———	———
2	Otis Creek	2	415	3,398	———	3,460	———	353
6	Outlook	8	4,062	23,331	18,041	———	———	9,372
1	Outlook South	1	685	938	———	———	———	1,623
2	Outlook West	2	1,402	3,088	1,773	———	———	2,717
1	Pennel-Lookout Butte	112	———	143,957	143,957	———	———	———
4	Pine	111	16,335	252,582	252,368	———	———	16,549
62	Pondera	263	3,601	24,763	23,979	———	———	4,385
8	Poplar	65	8,086	53,133	51,409	———	254	9,556
3	Poplar Northwest	3	1,298	1,568	1,028	———	———	1,838
—	Prairie Elk	———	1,535	———	———	———	———	1,535
2	Pritchard Creek	2	167	651	651	———	———	167
4	Ragged Point	12	2,651	7,930	6,364	———	———	4,217
2	Rattlesnake Coulee	2	719	446	593	———	———	572
2	Reagan	43	398	18,671	18,567	———	———	502
1	Red Creek	20	———	15,994	15,994	———	———	———
1	Red Fox	1	126	737	657	———	———	206
1	Redstone	1	313	2,052	1,922	———	———	443
1	Repeat	1	240	1,560	———	1,600	———	200
5	Reserve	5	———	9,220	9,220	———	———	———
1	Richey	1	433	535	647	———	———	321
1	Richey Southwest	6	528	2,037	———	1,688	———	877
—	Rough Creek	———	266	———	———	———	———	266
1	Rush Mountain	1	501	2,676	2,574	———	———	603
2	Salt Lake	3	469	4,623	———	4,223	———	869
5	Sand Creek	7	510	4,830	4,238	———	———	1,102
—	Shotgun Creek	———	248	———	———	———	———	248
1	Snyder	4	336	903	———	946	———	293
7	Soap Creek	18	2,152	3,955	———	3,195	———	2,912
1	Spring Lake	2	1,098	2,413	———	2,598	———	913
1	Stensvad	5	3,028	32,622	32,642	———	———	3,008
12	Sumatra	71	3,585	81,576	76,346	———	———	8,815
5	Tule Creek	6	3,577	26,230	26,167	———	———	3,640
2	Tule Creek East	2	307	8,071	7,386	———	———	992
2	Tule Creek South	3	516	3,350	———	3,121	11	734
2	Vida	2	327	1,450	———	1,253	———	524
3	Volt	4	1,681	11,302	10,925	———	———	2,058
2	Week Creek	3	455	1,668	1,607	———	4	512
3	Weldon	6	1,043	13,257	13,136	———	———	1,164
1	West Butte	1	———	2,391	———	2,391	———	———
18	Whitlash	42	7,942	12,054	11,999	———	———	7,997
1	Whitlash West	1	588	180	206	———	———	562
4	Willow Creek North	4	814	3,678	3,772	———	———	720
2	Wills Creek South	2	———	3,120	3,120	———	———	———
6	Wolf Springs	7	2,886	4,561	4,781	———	———	2,666
2	Woodrow	2	317	1,881	1,582	———	———	616
5	Wright Creek	5	2,519	2,234	3,096	———	———	1,657
—	Wildcat, Blaine Cty	———	157	———	———	———	———	157
—	Wildcat, Carbon Cty	———	310	———	———	———	———	310
1	Wildcat, Daniels Cty	1	198	915	———	653	———	460
4	Wildcat, Fallon Cty	4	1,081	9,919	———	9,165	———	1,835
2	Wildcat, Glacier Cty	5	818	908	258	———	———	1,468
—	Wildcat, Liberty Cty	———	396	———	———	———	———	396
3	Wildcat, Richland Cty	3	1,520	16,039	———	16,339	———	1,220
1	Wildcat, Roosevelt Cty	1	540	2,457	———	1,654	———	1,343
1	Wildcat, Toole Cty	1	———	824	824	———	———	———
766	TOTAL	3,171	279,690	2,825,603	2,637,239	170,195	1,456	296,403

Total Oil Produced and Shipped from Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1970	37,878,697	103,777	37,825,275	103,705
First Quarter, 1971	8,927,663	99,196	8,923,130	99,146
Second Quarter, 1971	8,684,548	95,435	8,715,304	95,773
Third Quarter, 1971	8,589,276	93,362	8,603,292	93,514
October, 1971	2,825,603	94,187	2,807,434	93,581

Oil In Storage	In Producers Field Tanks	In Transporters Storgae	In Refiners Storage ‡	Total Oil In Storage ‡
December, 1970	336,076	1,501,692	1,002,035	2,839,803
March, 1971	334,585	1,128,200	766,138	2,228,923
June, 1971	300,381	1,375,187	1,097,959	2,773,527
September, 1971	277,690	1,265,123	782,940	2,325,753
October, 1971	296,403	1,336,028	857,911	2,490,342

* Montana Oil Only
‡ Includes Wyoming Oil

TRANSPORTERS' MONTHLY REPORT — MONTH OF OCTOBER, 1971

	Storage First of Month	Oil Received By			Loss or (Gain)	Oil Shipped To			Storge End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—									
Western Crude Oil, Inc.			1,565				1,565		
BAINVILLE—									
Rock Island Oil & Ref. Co.			2,541				2,541		
BEAR'S DEN—Truck			1,128				1,128		
BELL CREEK—Pipeline	55,593	458,608					250,070	197,327	66,804
BIG WALL—									
Continental Pipeline Co.		8,082				8,082			
BLACKFOOT—									
Camerland Cardinal Corp.		2,565						2,565	
BORDER—Permian Corp.			1,830					1,830	
BOWES—Texaco Inc.		11,707				11,707			
BRORSON-MADISON, BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			19,355					19,355	
BRUSH LAKE—									
Portal Pipeline Co.		35,464					35,464		
CABIN CREEK & OTHERS*—									
Butte Pipeline Co.	358,695	686,992	44,926	678,152			1,439,867		328,898
Shell Pipeline Co.	5,454	286,021			3,763			284,325	3,387
	364,149	973,013	44,926	678,152	3,763		1,439,867	284,325	332,285
CANAL—									
Rock Island Oil & Ref. Co.			8,483				8,483		
CAT CREEK—									
Continental Pipeline Co. & Truck		14,279	3,165			17,444			
CLARK'S FORK AND CLARK'S FORK SOUTH—									
Permian Corp.			2,464				2,464		
COW CREEK—									
Western Crude Oil, Inc.			1,428				1,428		
CULBERTSON—									
Spruce Oil Co.			1,034				1,034		
CUT BANK—									
Continental Pipeline Co.			10,823	556,656				567,479	
Phillips Petroleum Co.	70,429	182,850		9,295				51,913	65,850
Texas Pipeline Co.	17,824	48,787		64,578	(72)			109,798	21,463
Union Oil Co.	78,966	58,116			(925)	83,744			54,263
Western Oil Trans. Co.		54,688						54,688	
Western Oil Trans. Co. (Moulton)		107,134						107,134	
	167,219	451,575	10,823	630,529	3,374	224,184		891,012	141,576
DELPHIA—Truck			404			404			
DWYER—Portal Pipeline Co.		21,641					21,641		
ELK BASIN & ELK BASIN NORTHWEST—Marathon Pipeline		147,073				147,073			
FAIRVIEW—									
Fairview Pipeline Co.		10,810					10,810		
Rock Island Oil & Ref. Co.			18,807				18,807		
		10,810	18,807				29,617		
FLAT COULEE—									
Camerland Cardinal Corp.		5,881				5,881			
FLAT LAKE & FLAT LAKE SOUTH—									
Portal Pipeline Co.		52,047					52,047		
FT. GILBERT—									
Fairview Pipeline Co.		14,478					14,478		
FRANNIE—Interstate Pipeline Co.		2,635					2,635		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	5,896	35,664				26,275		1,755	13,530
GAGE—Truck			174			174			
GIRARD—									
Rock Island Oil & Ref. Co.			3,094				3,094		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	6,349	26,447			(179)			25,114	7,861
GOOSE LAKE—									
Portal Pipeline Co.		33,912					33,912		
HAY CREEK—									
Fairview Pipeline Co.		15,488					15,488		
HIAWATHA—									
Continental Pipeline Co.		6,984					6,984		
HIBBARD—Truck			618			618			
INJUN CREEK—Permian Corp.			512				512		
IVANHOE—									
Continental Pipeline Co.		4,831				4,831			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		12,656				12,656			
KELLEY—									
Continental Oil Co.		4,369				4,369			
KEVIN SUNBURST—									
Big West Oil Co.	7,536	24,387				30,221			1,702
Homestake Oil & Gas Co.	3,810	2,883				2,493			4,200
Texas Pipeline Co.	6,228	10,518		1,885	73			12,702	5,856
	17,574	37,788		1,885	73	32,714		12,702	11,758
LEARY—Permian Corp.			754				754		
LODGE GRASS—Permian Corp.			1,029			1,029			
MASON LAKE—									
Continental Pipeline Co.		353				353			
MELSTONE—									
Continental Oil Co.		1,863				1,695	168		
MIDDLE WALL**—		13,709						13,709	
MOSSER—Permian Corp.			707				707		
OTIS CREEK—									
Western Crude Oil, Inc			3,460				3,460		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		19,808					19,808		
PONDERA—									
Phillips Petroleum Co.	40,242	26,205			788	30,488			35,171
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, East Poplar Gathering System	13,525	74,785			(361)			68,685‡	19,986
RAGGED POINT—									
Continental Pipeline Co.		5,843				5,037	806		
RED CREEK—									
Western Oil Transportation Co		16,418						16,418	
RESERVE—Portal Pipeline Co.		7,502					7,502		
RUSH MOUNTAIN—									
Sinclair Refining Co.		2,574					2,574		
SALT LAKE—									
Rock Island Oil & Ref Co.			4,223				4,223		
SNYDER—Permian Corp.			946			946			
SOAP CREEK—Permian Corp.			3,195				3,195		
SPRING LAKE—									
Rock Island Oil & Ref. Co.			2,598				2,598		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	588,687	113,261		2,143,639	1,748	100,775		2,039,454	703,610
TULE CREEK—									
Spruce Oil Co.	5,889	33,552				35,994			3,447
Permian Corp.			3,121			3,121			
	5,889	33,552	3,121			39,115			3,447
WEED CREEK & WOLF SPRINGS									
Continental Pipeline Co.		6,389				6,389			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		11,803				9,294		2,509	
WILDCAT WELLS—Truck			27,811				27,811		
TOTAL	1,265,123	2,722,062	170,195	3,454,205	9,206	691,533	1,998,058	3,576,760	1,336,028

* Cabin Creek, Cupton, Fertile Prairie, Gas City, Monarch, Repeat, Richey, Richey Southwest, Vida, Weldon & Wills Creek South.
** Jim Coulee, Little Wall Creek & Willow Creek North.
‡ Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF OCTOBER, 1971

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Spruce Oil Co.	Westco Ref. Co.	Total
Big Wall		8,082								8,082
Bowes			13,707							13,707
Cat Creek		293				3,820				4,113
Cut Bank	94,227						139,005		135,969	369,201
Delphia						693				693
Elk Basin		55,793		47,423	43,857					147,073
Flat Coulee									5,881	5,881
Fred & George Creek	50,517									50,517
Gage & Gage Southwest						42				42
Hibbard						961				961
Ivanhoe		4,564								4,564
Keg Coulee		2,493		8,964						11,457
Kelley					4,369					4,369
Kevin Sunburst	32,714									32,714
Lodge Grass		1,029								1,029
Mason Lake		353								353
Melstone				1,695						1,695
Pondera							23,889			23,889
Ragged Point				5,037						5,037
Snyder		946								946
Sumatra & Stensvad		21,052		47,082	32,640					100,774
Tule Creek								66,367		66,367
Weed Creek					1,607					1,607
Whitlash							9,294			9,294
Wolf Springs					4,781					4,781
Total Montana Oil	177,458	94,605	13,707	110,201	87,254	5,516	172,188	66,367	141,850	869,146
Canadian Oil Imported		558,859		206,055	345,359					1,110,273
Wyoming Oil Imported		236,341		622,528	936,144					1,795,013
Total Montana, Canadian and Wyoming Oil	177,458	889,805	13,707	938,784	1,368,757	5,516	172,188	66,367	141,850	3,774,432

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1970	24,878	25,744	65,351	115,973
October, 1970	25,348	39,474	60,260	125,082
October, 1971	28,037	35,815	57,904	121,756

PERCENTAGE OL CRUDE OIL REFINED

	Montana	Canada	Wyoming
	21.45%	22.20%	56.35%
	20.26%	31.56%	48.18%
	23.03%	29.42%	47.55%